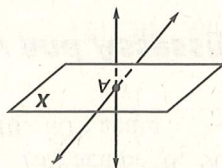


Lesson 1.5 continued

Daily Homework Quiz

1. point D
2. point B
3. point E
4. The planes do not appear to intersect.
5. Sample answer:

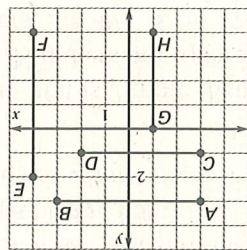


Practice A

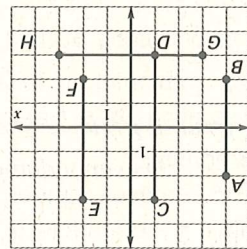
1. 33 millimeters
2. 42 millimeters
3. 22 millimeters
4. 11 millimeters
5. true
6. false
7. false
8. true
9. false
10. true
11. $FH = 8$
12. $JL = 18$
13. $AB = 9$
14. $TU = 4$
15. $YZ = 102$
16. $NP = 6$
17. $\overline{CD} \cong \overline{AB}$
18. $\overline{AB} \cong \overline{EF}$
19. $2x + 2$
20. $x + 2$
21. 58 inches

Practice B

1. 2 inches
2. $1\frac{1}{2}$ inches
3. $LJ + JM = LM$
4. $WY + YX = WX$
5. B
6. E
7. D
8. C
9. I
10. J
11. $AC = 18$
12. $MN = 6$
13. $XZ = 195$
14. $\overline{QR} = 4.2$



$$\overline{AB} \cong \overline{EF}$$

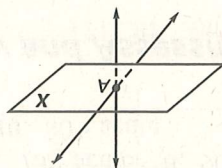


$$\overline{CD} \cong \overline{GH}$$

17. $3x - 2$
18. $2x + 2$
19. 6.5 feet

Daily Homework Quiz

1. point D
2. point B
3. point E
4. The planes do not appear to intersect.
5. Sample answer:

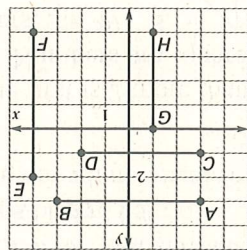


Practice A

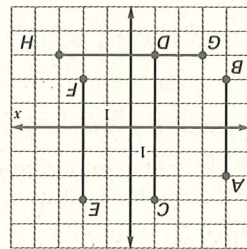
1. 33 millimeters
2. 42 millimeters
3. 22 millimeters
4. 11 millimeters
5. true
6. false
7. false
8. true
9. false
10. true
11. $FH = 8$
12. $JL = 18$
13. $AB = 9$
14. $TU = 4$
15. $YZ = 102$
16. $NP = 6$
17. $\overline{CD} \cong \overline{AB}$
18. $\overline{AB} \cong \overline{EF}$
19. $2x + 2$
20. $x + 2$
21. 58 inches

Practice B

1. 2 inches
2. $1\frac{1}{2}$ inches
3. $LJ + JM = LM$
4. $WY + YX = WX$
5. B
6. E
7. D
8. C
9. I
10. J
11. $AC = 18$
12. $MN = 6$
13. $XZ = 195$
14. $\overline{QR} = 4.2$



$$\overline{AB} \cong \overline{EF}$$

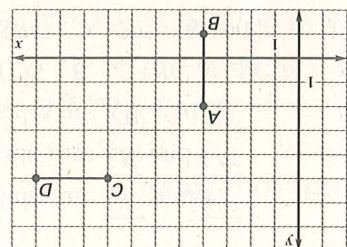


$$\overline{CD} \cong \overline{GH}$$

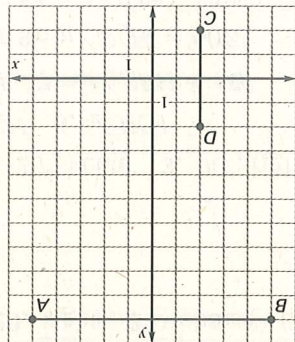
17. $3x - 2$
18. $2x + 2$
19. 6.5 feet

Reteaching with Practice

1. $2\frac{3}{8}$ inches
2. $\frac{8}{7}$ inch
3. $JL = 18.5$
4. $BC = 4$



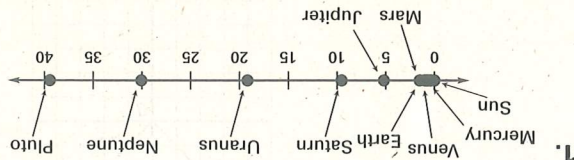
the segments are congruent.



6.

the segments are not congruent.

Real-Life Application



2. Mercury and Venus
3. Venus
4. 0.52 AU
5. Uranus and Neptune
6. About 0.003 AU

7. The moon would be at 0.997 AU during a solar eclipse and at 1.003 AU during a lunar eclipse.

Lesson 1.6

Warm-Up Exercises

1. point P
2. congruent
3. line
4. postulate

Daily Homework Quiz

1. 18 mm
2. 39 mm
3. 25
4. 7
5. No, \overline{JK} and \overline{LM} are not congruent.

Lesson 1.6 continued

Technology Activity

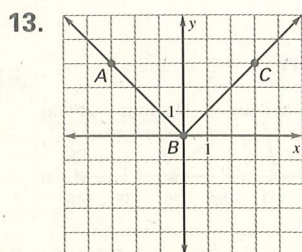
1. 180° 2. 60°

Practice A

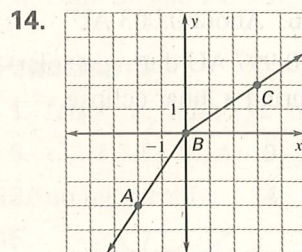
1. vertex is F ; sides are \overrightarrow{FG} and \overrightarrow{FE}
2. vertex is L ; sides are \overrightarrow{LK} and \overrightarrow{LM}
3. vertex is X ; sides are \overrightarrow{XW} and \overrightarrow{XY}
4. $\angle SOT$ or $\angle TOS$ 5. $\angle ABC$ or $\angle CBA$
6. $\angle QRS$ or $\angle SRQ$ 7. 27° 8. 90° 9. 112°
10. right 11. acute 12. straight 13. obtuse
14. 125° 15. 160° 16. 110° 17. 70°
18. 35° 19. 80° 20. right 21. obtuse
22. acute

Practice B

1. 150° ; obtuse 2. 20° ; acute 3. 90° ; right
4. $\angle JKM$ and $\angle HKN$ 5. $\angle JKH$
6. $\angle JKN \cong \angle MKH$ 7. $m\angle EFH = 50^\circ$
8. $m\angle WNK = 70^\circ$ 9. $m\angle RQT = 60^\circ$
10. $m\angle REZ = 77^\circ$ 11. $m\angle RTS = 28^\circ$
12. $m\angle GPS = 100^\circ$



right angle



obtuse angle

15. 84.5° 16. 84.8°

Reteaching with Practice

1. $\angle EFG$ or $\angle GFE$ or $\angle F$ 2. $\angle RTS$ or $\angle STR$, $\angle STU$ or $\angle UTS$, and $\angle RTU$ or $\angle UTR$
3. 32° 4. 180° 5. right 6. acute

7. obtuse 8. 110° 9. 60°

Quiz 2

1. C 2. A 3. \overrightarrow{AD} and \overrightarrow{BE} 4. 13 5. 4
6. 5 7. 70° ; acute 8. 90° ; right 9. 100° ; obtuse 10. 80° ; acute

Review and Assessment

Review Games and Activities

1. point 2. unproven 3. measure 4. plane
 5. k 6. intersect 7. noncollinear
 8. postulate 9. inductive reasoning
- PUMPKIN PI

Test A

1. 2. 3. 71 4. -27

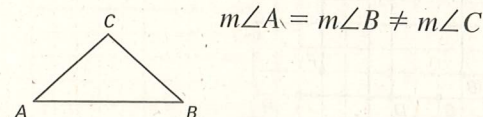
5. odd 6. positive 7. Answers will vary.
- Sample answer: $3 \div 4 = \frac{3}{4}$ 8. Yesterday could have been Wednesday. 9. A, B, C, D
10. A, B, C 11. \overrightarrow{FG} and ℓ , or \overrightarrow{AC} and ℓ 12. P
13. false 14. true 15. true 16. B 17. A
18. \overrightarrow{EB} 19. Plane ABC and plane FED do not appear to intersect. 20. $1\frac{1}{4}$ inches
21. $1\frac{5}{8}$ inches 22. 16 23. 8 24. 60° ; acute
25. 175° ; obtuse 26. 105° 27. 92°

Test B

1. Each number after the first is 2 more than the previous one; 11, 13 2. Numbers are squares of consecutive whole numbers; 36, 49 3.



4. Answers may vary. Sample answer:



5. Answers may vary. Sample answer: 11, 12, 13, 14, 15 6. 2, -2, or -2, 2 7. C 8. D
9. F 10. D 11. H 12. B 13. a point